

Changing from Information Assurance to Cybersecurity?

Information Assurance (IA) - Measures that protect and defend information and information systems by ensuring their availability, integrity, authentication, confidentiality, and non-repudiation. This includes providing for restoration of information systems by *Department of Defense Directive (DoDD) 8500.01E, April 23, 2007* capabilities.

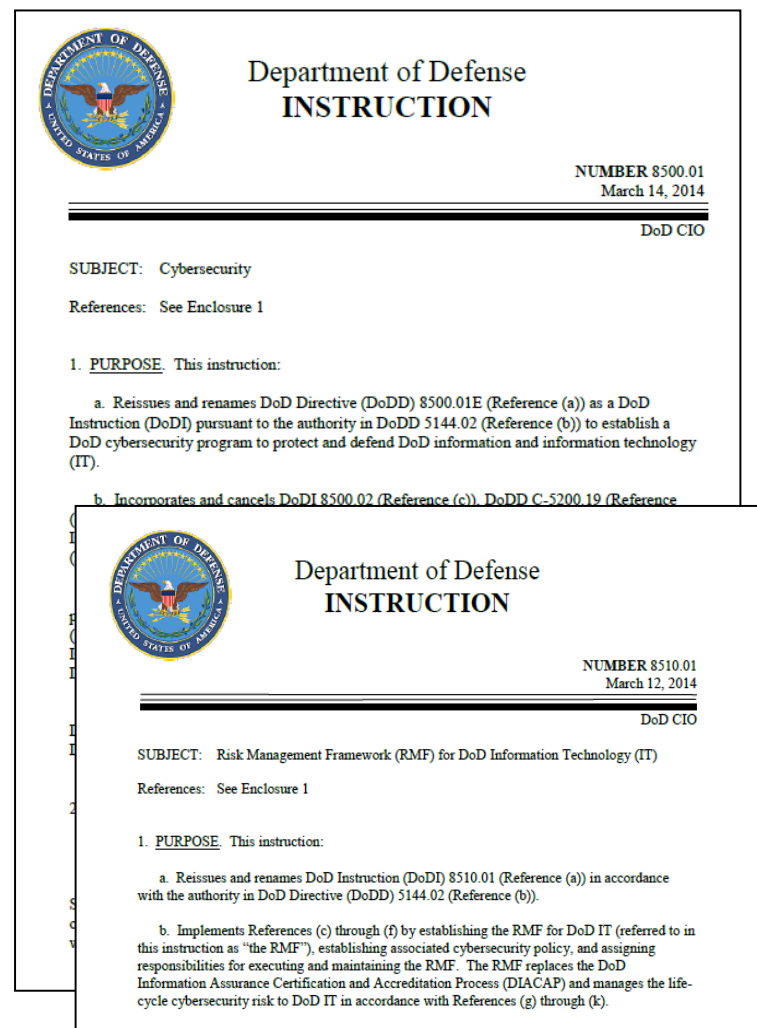
Cybersecurity - **Prevention of** damage to, protection of, and restoration of computers, electronic **communications systems**, electronic communications services, wire communication, and electronic communication, including information contained therein, to ensure its **availability**,

Department of Defense Instruction (DoDI) 8500.01, March 14, 2014
DoDI 8500.01 adopts the term "cybersecurity" to be used throughout the DoD instead of the term "information assurance (IA)."

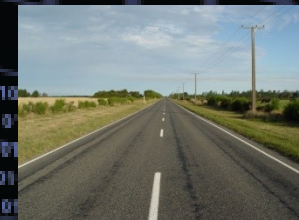
Management Framework (RMF)

- DoD Instruction 8500.01
 - Cybersecurity
 - Signed March 14, 2014
- DoD Instruction 8510.01
 - Risk Management Framework (RMF) for DoD Information Technology (IT)
 - Signed March 12, 2014

Cybersecurity RMF steps and activities, as described in DoD Instruction 8510.01, should be initiated as early as possible and fully integrated into the DoD acquisition process including requirements management, systems engineering, and test and evaluation.



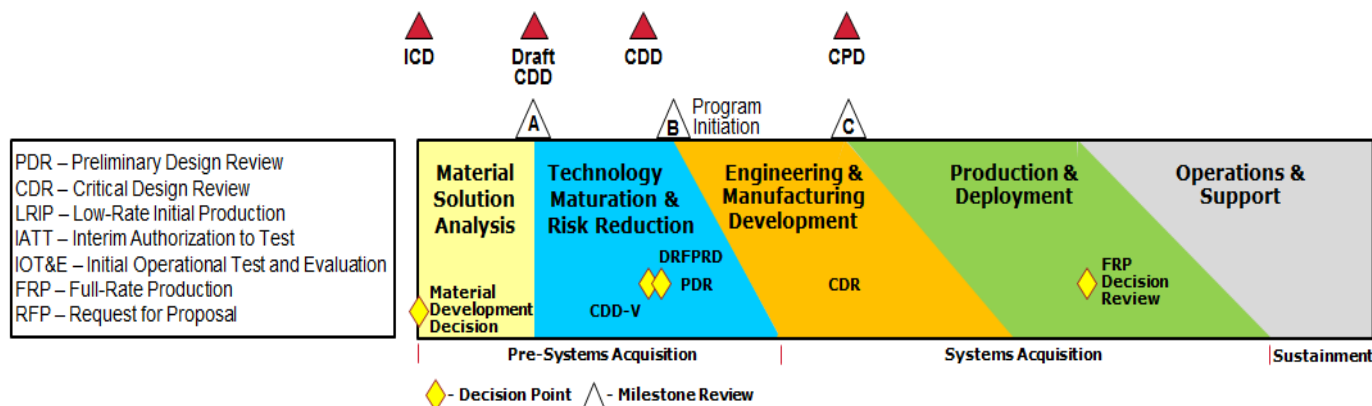
IA Roadmap Under DIACAP



| Roadmap step | | Milestone | Phase of Lifecycle | |
|--|------------------------|---|--|----------------------|
| Establish an IA organization | | A | Early in Tech Development (TD) | |
| Identify IA requirements | | A | Early/mid stages of TD | |
| Develop an acquisition IA strategy | | A | Early/mid/late stages of TD | |
| Secure resources for IA | | A | Early/mid to late stages of TD | |
| Initiate DIACAP | | A | Mid TD to end of Engineering and Mfg Development (EMD) | |
| Incorporate IA solutions | | B | Mid/late TD to end of EMD | |
| Test and evaluate IA solutions | | B | Early/mid EMD to mid Production and Deployment (PD) | |
| Accredit the system | | C | Milestone C | |
| Maintain the system's security posture | | C | Throughout PD and Operations & Support | |
| MATERIAL SOLUTIONS ANALYSIS | TECHNOLOGY DEVELOPMENT | ENGINEERING AND MANUFACTURING DEVELOPMENT | PRODUCTION and DEPLOYMENT | OPERATIONS & SUPPORT |

RMF and the Acquisition Life Cycle

Cybersecurity requirements must be identified and included throughout the lifecycle of systems to include acquisition, design, development, developmental testing, operational testing, integration, implementation, operation,



RMF Step 1 – Categorize System

Cybersecurity Strategy & System Security Plan

RMF Step 2 – Select Security Controls

Specify system security baselines in JCIDS

RMF Step 3 – Implement Security Controls

ISSE/SSE translates security controls to design requirements and integrates into system specifications
 System security specifications in RFP
 Coordinate TEMP and Security Assessment Plan
 Approve system design at review points

RMF Step 4 – Assess Security Controls (Issue IATT's?)

Development Test & Evaluation (DT&E)

RMF Step 5 – Authorize System (Issue ATO)

Operational Test & Evaluation (OT&E)

RMF Step 6 – Monitor Security Controls

RMF Process

Step 6: Monitor Security Controls

- Determine impact of changes to the system and environment
- Assess selected controls annually
- Conduct needed remediation
- Update security plan, SAR, and POA&M
- Report security status to AO
- AO reviews reported status
- Implement system decommissioning strategy

Step 1: Categorize System

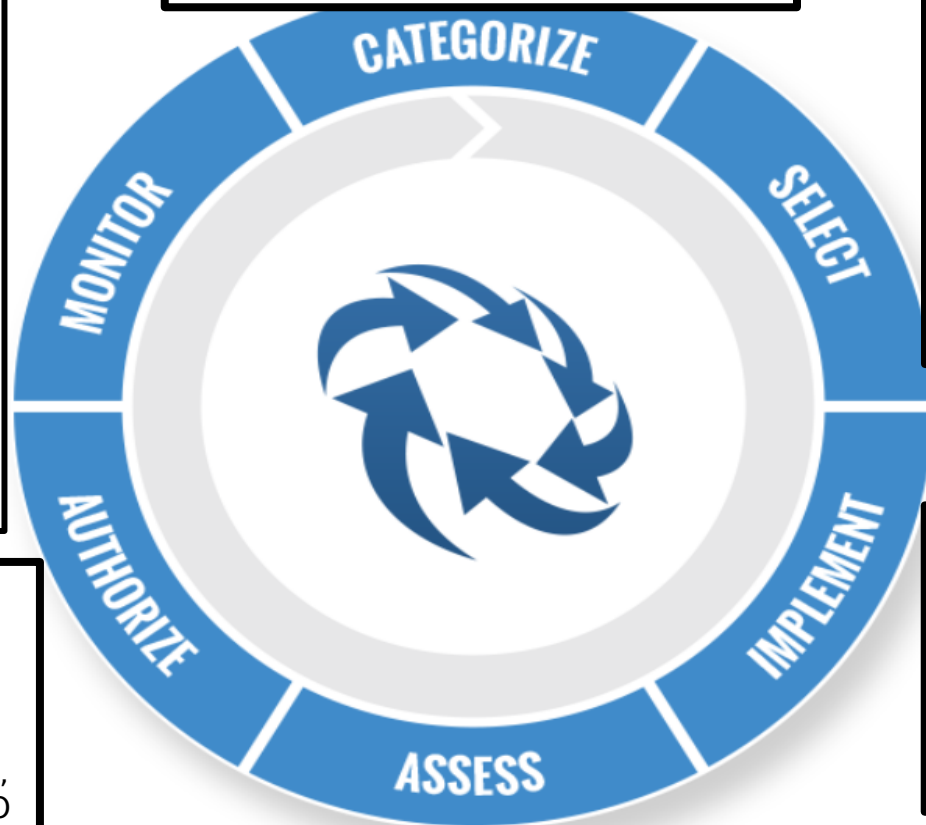
- Categorize the system in accordance with the CNSSI 1253
- Initiate the Security Plan
- Register system with DoD Component Cybersecurity Program
- Assign qualified personnel to RMF roles

Step 2: Select Security Controls

- Common Control Identification
- Select security controls
- Develop system-level continuous monitoring strategy
- Review and approve the security plan and continuous monitoring strategy
- Apply overlays and tailor

Step 3: Implement Security Controls

- Implement control solutions consistent with DoD Component Cybersecurity architectures
- Document security control implementation in the security plan



Step 5: Authorize System

- Prepare the POA&M
- Submit Security Authorization - -
- Package (security plan, SAR and POA&M) to AO
- AO conducts final risk determination
- AO makes authorization decision

Step 4: Assess Security Controls

- Develop and approve Security Assessment Plan
- Assess security controls
- SCAR (Security Control Assessment Report) (SAR)

RMF Transition Timeline (per RMF Knowledge Service)

| Completed DIACAP Package Submitted to AO for Signature | ATO Date | Maximum Duration of ATO under DIACAP |
|--|---------------------------------|--------------------------------------|
| Present through May 31, 2015 | Determined by AO Signature Date | 2.5 years from AO signature date |
| June 1, 2015 through February 1, 2016 | | 2 years from AO signature date |
| February 2, 2016 through October 1, 2016 | | 1.5 years from AO signature date |

What this means:

The longer you stay with DIACAP, the shorter the ATO. DIACAP certified systems should be almost extinct by mid-year 2018.